Harvesting Vulnerabilities in Food-Industry Agrokor Group

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Agrokor Group

5+ Billions USD Revenue
40+ Companies Holding
40.000+ Employees in Group
in 6 countries of South-East Europe

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Where is the problem?

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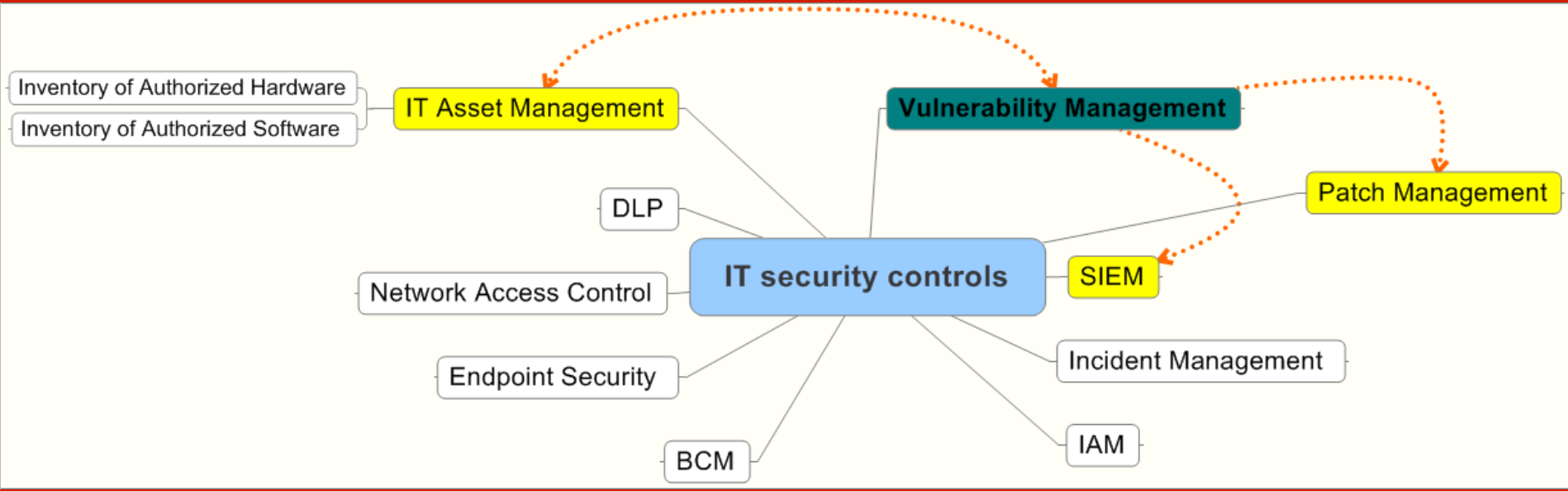
IT security controls



Vulnerability Management Process

- **#4** of SANS Critical Security Controls
- Related to:
  - #1 of SANS Critical Security Controls
  - #2 of SANS Critical Security Controls

- VM & QualysGuard in Agrokor Group: since 2006
- Started with 100s of assets now we 1000s of IT Assets in VM

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Key challenges

1. VM workflow
2. RACI matrix
3. IT Asset management in VM
4. Remediation policy
5. Visibility of VM process
6. Accuracy of VA Scans

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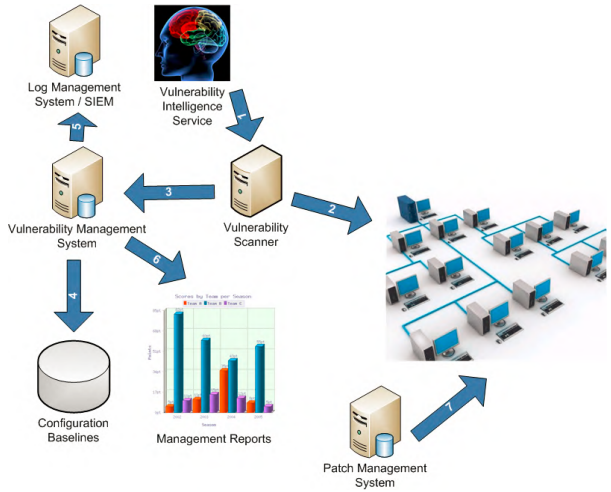
VM workflow



Source: SANS 20 Critical Controls 4.1

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RACI matrix

VM role / Responsibility	Internal VAS service provider	BU Manager	IT Asset Owner	Scanner	Business Owner of IT Asset	InfoSec
VM policy	I	I	I	I	I	A/R
VAS system configuration	A/R	R	I	R		C/I
Asset management	I	A/R	C	R		I
Remediation	I	R	R/A	R	A	I

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IT Assets management in VM

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VM Policy

Network segmnets / Vulnerability type	Perimeter	PCI DSS scope	Internal network
4 & 5 with remote exploit confirmed	X days	X days	XY days
4 & 5 - confirmed	XY days	X days (CVSS 4.0 or more)	XYZ days
		XY days (CVSS less than 4.0)	
3 - confirmed	XYZ days	Best effort	Best effort
1 i 2 - confirmed	Best effort	Best effort	Best effort

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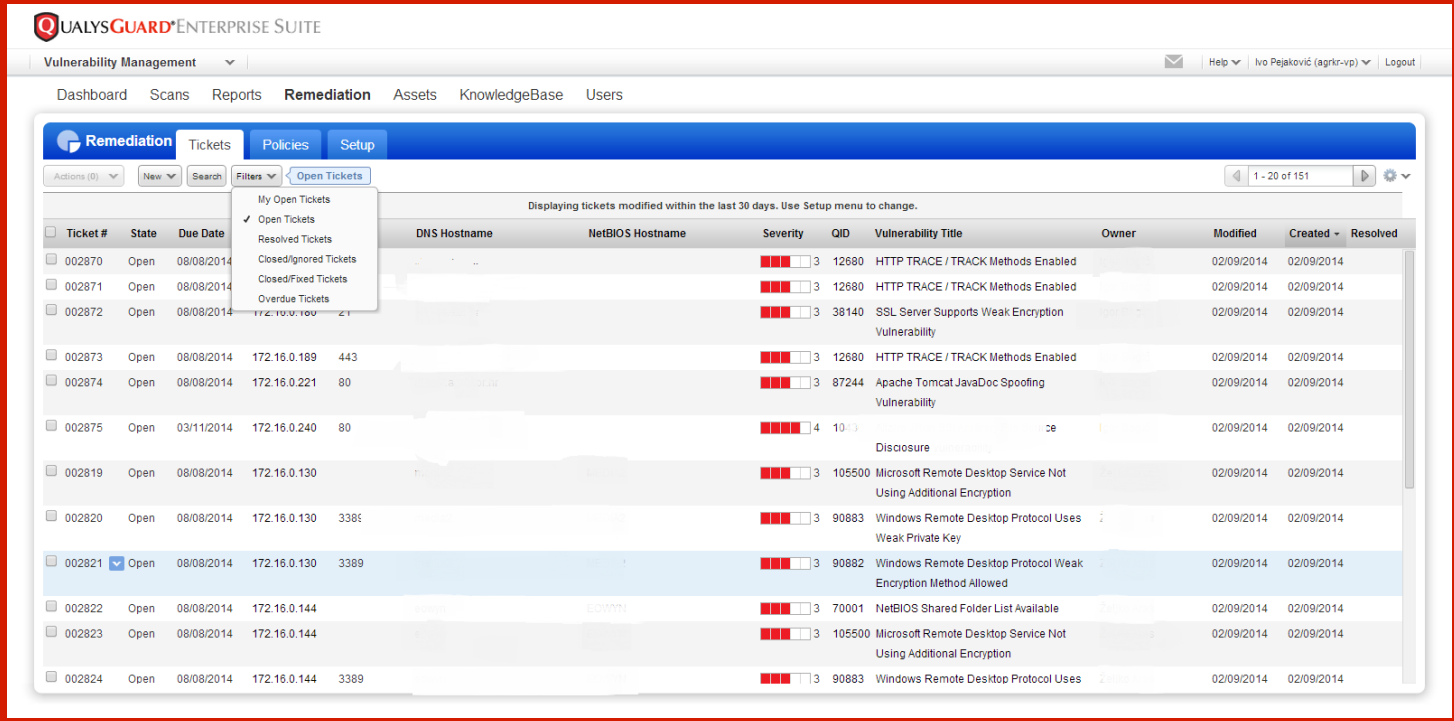
VM Visibility



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VM Accuracy

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Better insights in:

- Patch levels
- Installed software base
- Configuration details

Authenticated scans performed on following platforms:

- AIX, Linux, Windows servers
- Client computers (Windows 7, XP)
- Network equipment (Cisco IOS devices)

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Sharing Best Practice

- Define sustainable VM policy
- Address all exceptions from the policy
- Automation of VM activities
- Be careful with VM process roles definition
- Delegate responsibilities
- Improve accuracy → use authenticated scans

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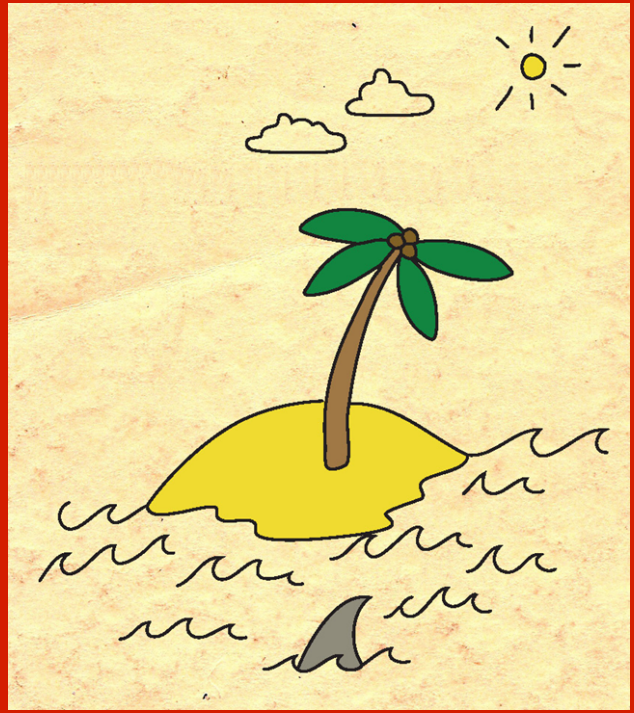
This does not exist!



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Jamnica
jana
Juicy
kiseljak
Vg
Jamnica Sensation
jana
Fruits
sky Cola
FONYODI
jana
Vita
Ski
AKVIA
GINGER
Ice Tea
To
KONZUM
IDEA
VELPRO
TISAK
MultiPlusCard
TISAK media
KONZUM benz
KONZUM INTERNET PRODAVAONICA
ROTO
K Plus
STANDARD
Rial
K HOME
K STYLE
DREAM
Vedo
KING
GRANDISSIMO
G
Frikom
Sajeguščice
Kraft
MACHO
Quattra
Maestro
Bio
Kontiki
Bov
Swiss
Kapri
NJOFRA
RUMENKO
Šlag
Strauss
LENI
Ledolette
LEDO MEDO
Fresco
Irida
RUM KOKTEL
Volcano
Cmok
Snežak
Crispso
Torte Mondo
pik
ŠUNKA
MORTADELA
BELJE
Sljeme
pik svježe meso
Piko
Piketa
DIMLJENA SLANINA
Classic
PANONA
DIVLJAČ
BARANJSKI KULEN
VINA LADUNA
VINA LADUNA PRESTIGIA
VINA BELJE
VINA BELJE GOLDBERG
Gaj
DE MAR
DALJA
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VENUS
ZVIJEZDA
Margo
OMEGOL
ZVIJEZDA Junior
DIJAMANT
Dobro jutro!
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